



File Code: 3400

Date: November 17, 2005

Mr. Mark Simonis
Tioga-Hammond and Cowanesque Lakes
US Army Corps of Engineers
RD 1, Box 65
Tioga, PA 16946

Dear Mark:

On September 28, 2005, USDA Forest Service personnel conducted a gypsy moth egg mass survey at Tioga-Hammond Lake. The purpose of this survey was to assess the potential for defoliation and the need for treatment in two areas that the US Army Corps of Engineers had proposed for treatment in 2006. One proposed treatment area is located at Hammond Lake and encompasses 84 acres while the other block is located at Tioga Lake and is 20 acres (Figure 1).

Gypsy moth survey plots were randomly selected based upon available host trees (oak species), size of sample area and uniformity between egg mass counts. At each sample point, a 1/40th acre fixed radius plot was established. The plots consisted of a tally of all the new (2005) egg masses observed on the overstory trees, understory vegetation, ground litter and duff. The total number of egg masses observed for each plot was multiplied by 40 to determine the number of egg masses per acre. Egg mass lengths were also measured at the plots to determine the overall "health" of the existing population.

The location of the survey plots are shown in Figures 2 and 3 and the survey results are summarized in Tables 1 and 2. In brief, egg mass densities ranged from 0-400 and averaged 140 egg masses per are at Hammond Lake and ranged from 0-360 and averaged 190 egg masses per acre at Tioga Lake. Egg mass length tended to be large to extra large at both sites, averaging 43mm at Hammond Lake and 37 mm at Tioga Lake.

Even though the gypsy moth population appears to be healthy and building at both sites, populations are not sufficient to cause any noticeable defoliation. Therefore, treatment is not recommended at Tioga-Hammond Lake in 2006.



Table 1—Results of the gypsy moth egg mass survey conducted at Hammond Lake on September 28, 2005

Plot #	# em/acre
1	200
2	40
3	0
4	0
5	240
6	320
7	200
8	400
9	0
10	0
egg masses per acre range = 0-400 egg masses per acre average =140	
egg mass size range (mm) = 32-52 egg mass size average (mm) = 43	

Table 2—Results of the gypsy moth egg mass survey conducted at Tioga Lake on September 28, 2005

Plot #	# em/acre
1	160
2	360
3	240
4	0
egg masses per acre range = 0-360 egg masses per acre average =190	
egg mass size range (mm) = 26-46 egg mass size average (mm) = 37	

Please call me at (304) 285-1555 if you have any questions regarding this egg mass survey or this letter.

Sincerely,

A handwritten signature in cursive script that reads "Rodney L. Whiteman".

RODNEY L. WHITEMAN
Forester
Forest Health Protection

Cc: Don Eggen, PA BOF
Brad Regester, PA BOF
Lacey Evans, Baltimore District, US Army COE
Noel Schneeberger, AO

Figure 1. Proposed gypsy moth suppression blocks at Tioga-Hammond Lake in 2006

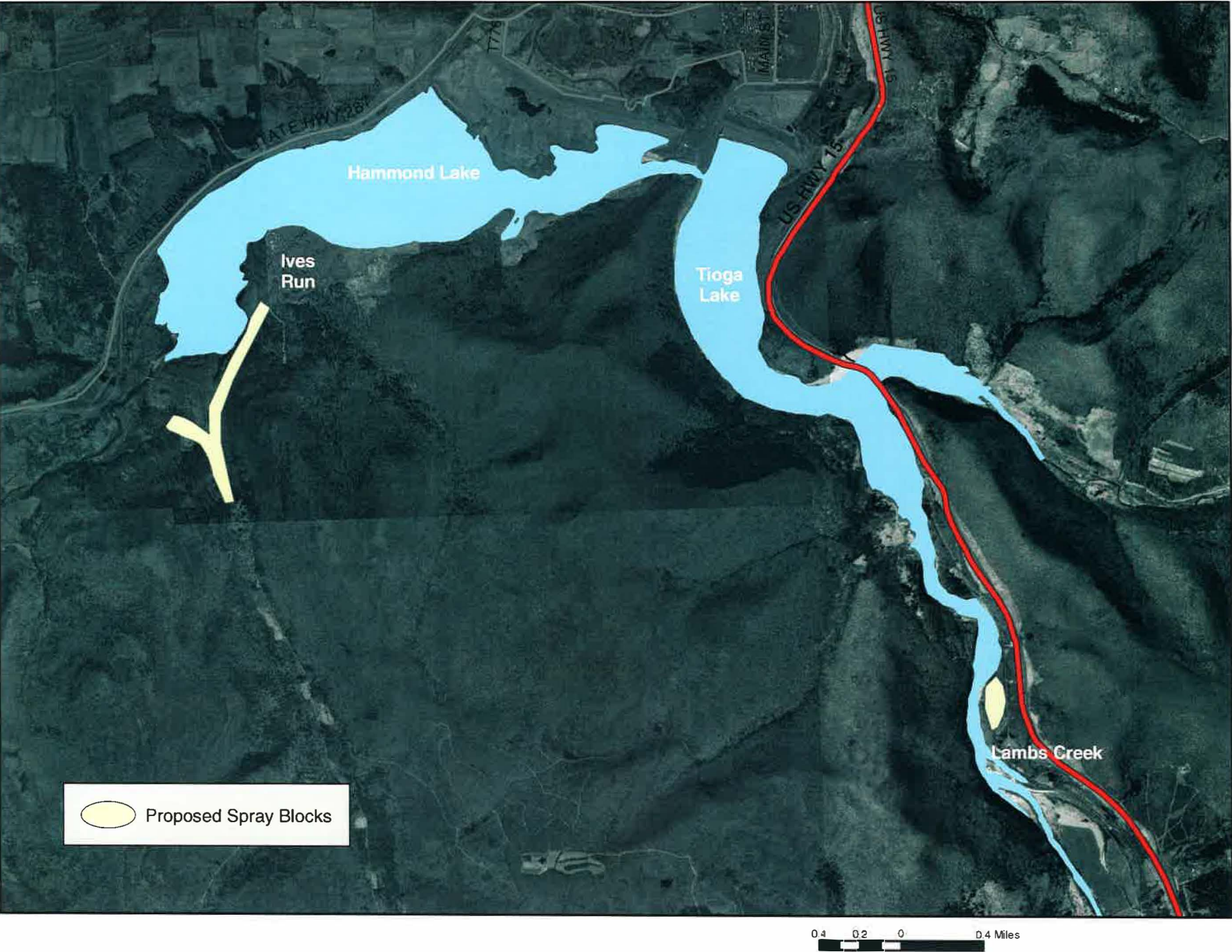


Figure 2. Proposed 2006 spray block and egg mass survey locations at Hammond Lake, September 28, 2005.



Figure 3. Proposed 2006 spray block and egg mass survey locations at Tioga Lake, September 28, 2005.

